

**ABSTRACT OF THE DISCLOSURE**

The present light-receiving circuit includes a light-receiving device, typically an avalanche photodiode (APD), a bias supply, a reference resistor and a feedback control circuit. The APD receives an optical signal with a predetermined transmission speed. The bias supply provides a bias voltage to the APD. The  
5 reference resistor detects a signal current generated by the APD. The feedback control circuit receives the signal current detected by the reference resistor and controls the bias supply such that the signal current detected by the reference resistor is maintained to be a predetermined magnitude.